

# JUNIOR MATHS (VZED 8K)

This program tests the four basic mathematical functions: Addition, Division, Subtraction and Multiplication. Whilst not an educational program in the strictest sense, it does serve to reinforce lessons already learnt. You are first asked to choose the type of problem after which a graphics screen is presented with an area for the questions and answers and a representation of a persons head with a non-committal expression and some ominous blue water at the bottom. 10 questions are

presented one at a time. A correct answer is rewarded by a smile and some uplifting music whilst an incorrect answer causes a frown and depressing music. In this event, the correct answer is also displayed. When the ten questions have been presented, your score and percentage correct are shown.

Now comes the odd bit which may cause our mailbags to bulge with irate letters from outraged child psychologists. In the original version, the author "punished" an imperfect score by raising the water level until it covered the head. He soon found that children using it would deliberately enter incorrect answers just to see this happen. So he reversed the procedure. Now to submerge the hapless head, one must get a perfect score! By the way, the level of difficulty is appropriate to children aged from 9-11.

## JUNIOR MATHS VZ 200

6 CLEAR1000:CLS:COLOR,1:REM COPYRIGHT - R. CARSON - 1983.  
7 FORP0=0T0223 STEP1:PRINT@P0,CHR\$(160):NEXT

10 COLOR 6

20 PRINT@57," ■ ■ ■ ■ ■ ■ ■ ■"  
30 PRINT@59," ■ ■ ■ ■ ■ ■ ■ ■"

40 PRINT@131," ■ ■ ■ ■ ■ ■ ■ ■"  
41 PRINT@163," ■ ■ ■ ■ ■ ■ ■ ■":SOUND30,2

42 PRINT@256," "

45 FORL=1T0900:NEXT

46 AS=" WRITTEN BY R. CARSON "

47 FORL=1T0LEN(AS)

48 PRINT@256,RIGHT\$(AS,L):NEXT

49 FORL=1T02500:NEXT

50 TS=" WRITTEN BY R. CARSON "

51 FORP=LEN(TS)T01STEP-1:PRINT@256,RIGHT\$(TS,P):NEXT

57 BS=" ENJOY THIS EDUCATIONAL GAME "

58 FORL=1T0LEN(BS)

59 PRINT@256,RIGHT\$(BS,L):NEXT

60 FORJ=1T02500:NEXT

61 TS=" ENJOY THIS EDUCATIONAL GAME "

62 FORL=LEN(TS)T01STEP-1:PRINT@256,RIGHT\$(TS,L):NEXT

63 FORI=1T0900:NEXTI

70 SOUND20,3:PRINT" YOUR CHOICE OF PROBLEMS"

71 PRINT:PRINT" A = ADDITION"

72 PRINT" D = DIVISION"

73 PRINT" S = SUBTRACTION"

74 PRINT" M = MULTIPLICATION"

79 KS=INKEY\$

80 AS=INKEY\$:IFAS=""THEN80

81 IFAS="M"GOT060662

82 IFAS="D"GOT060665

83 IFAS="A"GOT060669

84 IFAS="S"GOT060672

85 IFAS<>"M"ANDAS<>"D"ANDAS<>"A"ANDAS<>"S"THEN76

89 REM

100 C=0:G=0:P=0

101 CLS:COLOR,0

110 COLOR7:PRINT@32," ■ ■ ■ ■ ■ ■ ■ ■"

120 COLOR7:PRINT@64," ■ ■ ■ ■ ■ ■ ■ ■"

125 COLOR 2

130 PRINT@97," ■ ■ ■ ■ ■ ■ ■ ■":COLOR7:PRINT@110," ■ ■ ■ ■ ■ ■ ■ ■"

132 COLOR 2

135 PRINT@129," ■ ■ ■ ■ ■ ■ ■ ■":COLOR7:PRINT@142," ■ ■ ■ ■ ■ ■ ■ ■"

140 COLOR2

145 PRINT@161," ■ ■ ■ ■ ■ ■ ■ ■":COLOR7:PRINT@174," ■ ■ ■ ■ ■ ■ ■ ■"

147 COLOR2

150 PRINT@193," ■ ■ ■ ■ ■ ■ ■ ■":COLOR7:PRINT@206," ■ ■ ■ ■ ■ ■ ■ ■"

155 COLOR 2

160 PRINT@225," ■ ■ ■ ■ ■ ■ ■ ■":COLOR7:PRINT@238," ■ ■ ■ ■ ■ ■ ■ ■"

165 COLOR 2

170 PRINT@257," ■ ■ ■ ■ ■ ■ ■ ■":COLOR7:PRINT@270," ■ ■ ■ ■ ■ ■ ■ ■"

175 COLOR2

180 PRINT@289," ■ ■ ■ ■ ■ ■ ■ ■":COLOR7:PRINT@302," ■ ■ ■ ■ ■ ■ ■ ■"

185 COLOR2

190 PRINT@321," ■ ■ ■ ■ ■ ■ ■ ■":COLOR7:PRINT@334," ■ ■ ■ ■ ■ ■ ■ ■"

195 COLOR 4

200 PRINT@353," ■ ■ ■ ■ ■ ■ ■ ■":COLOR7:PRINT@366," ■ ■ ■ ■ ■ ■ ■ ■"

203 COLOR7:PRINT@398," ■ ■ ■ ■ ■ ■ ■ ■"

205 COLOR 3

207 PRINT@385," ■ ■ ■ ■ ■ ■ ■ ■"

210 PRINT@417," ■ ■ ■ ■ ■ ■ ■ ■":COLOR7:PRINT@430," ■ ■ ■ ■ ■ ■ ■ ■"

215 COLOR 3

220 PRINT@449," ■ ■ ■ ■ ■ ■ ■ ■":COLOR7:PRINT@462," ■ ■ ■ ■ ■ ■ ■ ■"

223 SOUND30,5

225 COLOR,0



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228 IFAS="D" THEN PRINT@83, "DIVISION": SOUND30,2
229 IFAS="A" THEN PRINT@83, "ADDITION": SOUND30,2
230 IFAS="S" THEN PRINT@81, "SUBTRACTION": SOUND30,2
231 IFAS="M" THEN PRINT@79, "MULTIPLICATION": SOUND30,2
250 PRINT@208, "I WILL ASK YOU": SOUND30,3
252 COLOR2: PRINT@129, " "
255 PRINT@240, "SOME PROBLEMS, " : SOUND30,3
256 COLOR2: PRINT@129, " "
257 PRINT@272, "IF YOU GET": QM: SOUND30,3
258 COLOR2: PRINT@129, " "
260 PRINT@304, "CORRECT, THE " : SOUND30,3
262 COLOR2: PRINT@129, " "
265 PRINT@336, "WATER WILL GET": SOUND30,3
266 COLOR2: PRINT@129, " "
267 PRINT@368, "DEEPER, " : SOUND30,3
268 COLOR2: PRINT@129, " "
270 FORI=1 TO 5000: NEXT I
273 COLOR
274 PRINT @79, " "
275 PRINT@176, " "
276 PRINT@208, " "
277 PRINT@240, " "
278 PRINT@272, " "
279 PRINT@304, " "
280 PRINT@336, " "
280 PRINT@368, " "
60020 COLOR 0
60022 IFAS="M" GOSUB 60700
60030 IFAS="D" GOSUB 60710
60035 IFAS="A" GOSUB 60720
60040 IFAS="S" GOSUB 60730
60045 COLOR 2: PRINT@257, " "
60050 IFAS="M" THEN A=YXZ: PRINT@176, Y"X"Z"="
60055 IFAS="D" THEN B=YZ: A=Y: PRINT@176, B"-"="Z"="
60060 IFAS="A" THEN A=V+W: PRINT@176, V"+"W"="
60065 IFAS="S" THEN J=V+W: A=Y: PRINT@176, J"-"="W"="
60110 PRINT@240, "ANSWER": INPUTDS
60115 FORZ=1 TO LEN(DS)
60119 NEXT Z
60120 X=VAL(DS)
60125 IFX=ATHEN C=C+1: SOUND25,2: PRINT@82, C: "CORRECT"
60130 COLOR 2: PRINT@257, " "
60135 IFC=ATHEN 50261
60140 IFX>ATHEN 60175
60150 FORI=1 TO 1000
60155 NEXT I
60160 COLOR7: PRINT@175, " "
60165 COLOR7: PRINT@304, " "
60170 COLOR7: PRINT@240, " "
60175 COLOR2: PRINT@257, " "
60180 SOUND 16.3
60190 SOUND 11.2
60200 SOUND 11.1
60210 SOUND 13.3
60220 SOUND 11.3
60230 SOUND 0.2
60240 SOUND 15.4
60250 SOUND 16.4
60251 PRINT@368, "ANSWER IS" A" G" G" 1: FORV=1 TO 2500: NEXT

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60253 COLOR7: PRINT@175, " "
60255 COLOR7: PRINT@335, " "
60256 COLOR7: PRINT@367, " "
60257 COLOR7: PRINT@240, " "
60260 GOT0 60020
60261 FORI=1 TO 1500: NEXT I: COLOR7: SOUND20,3
60262 PRINT @82, " "
60263 PRINT@176, " "
60264 PRINT@208, " "
60265 PRINT@240, " "
60266 PRINT@272, " "
60267 PRINT@304, " "
60268 PRINT@336, " "
60269 PRINT@368, " "
60270 SOUND20,2: COLOR3: PRINT@358, " " : FORI=1 TO 1500: NEXT I
60271 COLOR3: PRINT@357, " " : FORI=1 TO 200: NEXT I
60272 COLOR3: PRINT@356, " " : FORI=1 TO 200: NEXT I
60273 COLOR3: PRINT@355, " " : FORI=1 TO 200: NEXT I
60274 COLOR3: PRINT@354, " " : FORI=1 TO 200: NEXT I
60275 COLOR2: PRINT@257, " "
60276 COLOR3: PRINT@353, " " : FORI=1 TO 200: NEXT I
60278 COLOR3: PRINT@321, " " : FORI=1 TO 200: NEXT I
60280 COLOR3: PRINT@289, " " : FORI=1 TO 200: NEXT I
60290 COLOR3: PRINT@257, " " : FORI=1 TO 200: NEXT I
60300 COLOR3: PRINT@225, " " : FORI=1 TO 200: NEXT I
60305 COLOR2: PRINT@129, " "
60310 COLOR3: PRINT@193, " " : FORI=1 TO 200: NEXT I
60320 COLOR3: PRINT@161, " " : FORI=1 TO 200: NEXT I
60330 COLOR3: PRINT@129, " " : FORI=1 TO 200: NEXT I
60340 COLOR3: PRINT@97, " "
60350 FORI=1 TO 1500: NEXT I
60351 QM=0
60352 SOUND20,3: PRINT@210, C: "CORRECT"
60353 PRINT@274, G: "WRONG"
60354 PRINT@338, INT(C*100/(C+G)): "PERCENT"
60355 FORI=1 TO 1500: NEXT I
60356 COLOR7: PRINT@337, " "
60359 COLOR 7
60360 SOUND30,2: PRINT@208, " " ENTER Y
60370 PRINT@271, " " TO PLAY AGAIN"
60380 PRINT@334, " " N TO FINISH " : INPUTCS
60390 IFC="Y" THEN 60750
60400 CLS: PRINT: PRINT: PRINT: PRINT
60662 Y=RNDX(12): Z=RNDX(12)
60663 QM=RNDX(50): IFC<10 THEN QM=10
60664 GOT0 100
60665 Y=RNDX(12): Z=RNDX(12)
60666 QM=RNDX(50): IFC<10 THEN QM=10
60668 GOT0 100
60669 V=RNDX(100): W=RNDX(100)
60670 QM=RNDX(50): IFC<10 THEN QM=10
60671 GOT0 100
60672 V=RNDX(100): W=RNDX(100)
60673 QM=RNDX(50): IFC<10 THEN QM=10
60675 GOT0 100
60700 Y=RNDX(12): Z=RNDX(12): RETURN
60710 Y=RNDX(12): Z=RNDX(12): RETURN
60720 V=RNDX(100): W=RNDX(100): RETURN
60730 V=RNDX(100): W=RNDX(100): RETURN
60750 CLS: PRINT: PRINT: PRINT: PRINT: GOT0 70

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BYE" : END